

HX-800W Power Supply 48VDC



The BLD-800 series power supply is a dual stage high efficiency power supply designed specifically for LED Rope Lighting. Featuring 800Watt continuous power in an IP 66/67 Industrial rated package with a 100k hour long life and 5-year warranty provide high confidence to luminaire users. All around protections including digital OTP, SCP and OCP with auto-recovery. Designed for 24hour non-stop operation for LED Rope Lights.



Features

- Constant Voltage mode LED power supply
- Supply Voltage: 100-305vac
- Great Surge Immunity 10kV
- Low Inrush Current
- 100,000Hour Life @ $T_c=75^{\circ}\text{C}$
- 5 Year Warranty @ $T_c\leq 75^{\circ}\text{C}$
- UL Class P, ENEC/CB/CCC SELV Output
- Safety according to UL8750, EN 61347-1, 61347-2-13, 62384



HX-BLD-800-V048-NNZ		
Input	Input Voltage	100~305Vac, 380Vac for 2 hours
	Input Frequency	47~63Hz
	Power Factor	>0.9@60-100%load, refer to PF vs. Load curve
	THD	<15%@60-100%load, refer to THD vs. Load curve
	Input Current	3.3Amax@277Vac & Full-Load 4.1Amax@220Vac & Full-Load
	Inrush Current	See Inrush Current Section in the datasheet
	Leakage Current	0.75mIU max @277Vac 60Hz, UL8750 0.7mA max @240Vac 50/60Hz, IEC60598-1
	Input Under Voltage	Shut down and auto-restart
	Surge Protection	Line to line 10kV, line to ground 10kV, According to IEC 61000-4-5

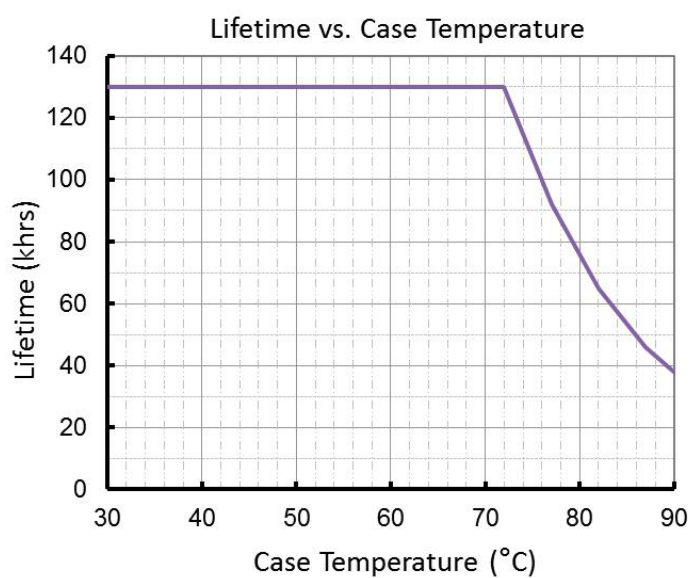
Output	Voltage	48VDC
	Current	16.6A (176-305Vac) 12.5A (100-176Vac)
	Power	800W (176-305Vac) 600W (100-176Vac)
	Voltage Ripple	Vp-p:5%Vo max
	Voltage Accuracy	±5%Vo
	Setup Time	1.2s max.
Protection	Output Overshoot	10% Vo max
	Output Over Current	110% Io max
	Short Circuit	Auto recovery. The output recovers when short is removed.
	Over Temperature	Reduce output when $T_c \geq 105 \pm 10^\circ\text{C}$; Auto Recovery When $T_c \leq 70 \pm 10^\circ\text{C}$
Environment	Operating Temperature	-40°C/40F ~ +90°C/194F ; 10%RH ~ 100%RH
	Storage Temperature	-40°C/40F ~ +85°C/185F ; 5%RH ~ 100%RH

Physical Attributes	Dimensions	9 5/16" × 4 15/16" × 1 15/16" (body) 10 5/16" × 4 15/16" × 1 15/16" (endcaps included)
		237.0 x 125.0 x 49.0 mm (body) 262.0 x 125.0 x 49.0 mm (endcaps included)
	Net Weight	2.6kg / 5.7lb

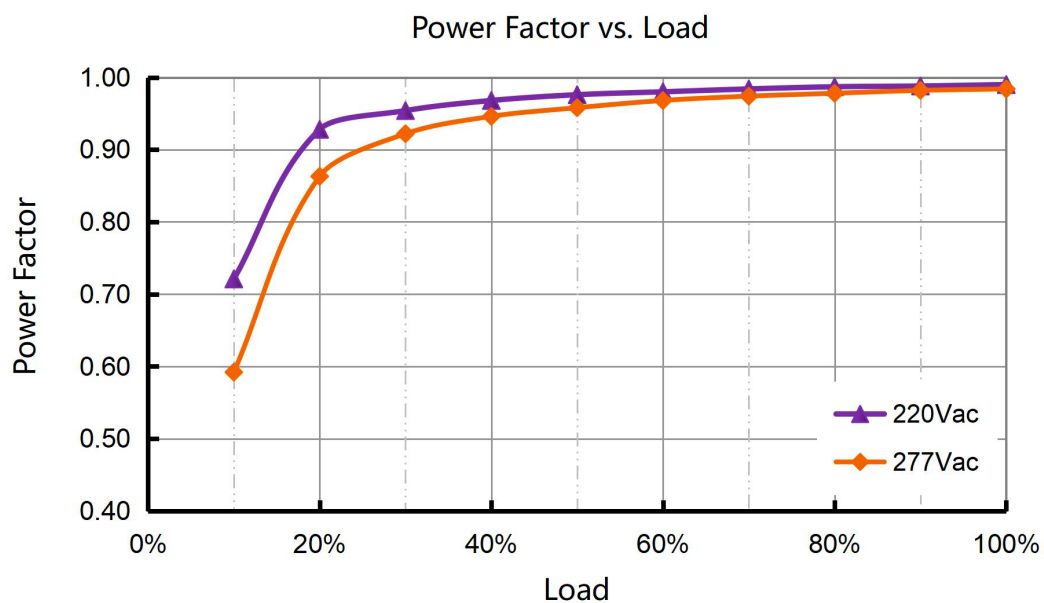
Safety	IP 66/67	Dust and water resistant
	UL8750	Light emitting diode(LED) equipment for use in lighting products
	UL1012	Power units other than class 2
	IEC 61347-1	Lamp control gear Part 1: general and safety requirements
	IEC 61347-2-13	Lamp control gear Part 2-13: particular requirement for DC or AC supplied electronic control gear for LED modules
	IEC 62384	DC or AC supplied electronic control gear for LED modules - Performance requirements
EMC	IEC 55015	Conducted emission test & radiated emission test
	IEC 61000-3-2	Harmonic current emissions; Class C
	IEC 61000-3-3	Voltage fluctuations & flicker
	FCC Part 15	ANSI C63.4:2009 Class B
	IEC 61000-4-2	Electrostatic discharge (ESD): 8 kV air discharge, 4 kV contact discharge
	IEC 61000-4-3	Radio frequency electromagnetic field susceptibility test (RS)
	IEC 61000-4-4	Electrical fast transient (EFT)

	IEC 61000-4-5	Surge immunity test
	IEC 61000-4-6	Conducted radio frequency disturbances test (CS)
	IEC 61000-4-8	Power frequency magnetic field test
	IEC 61000-4-11	Voltage dips
	IEC 61547	Electromagnetic immunity requirements applies to lighting equipment

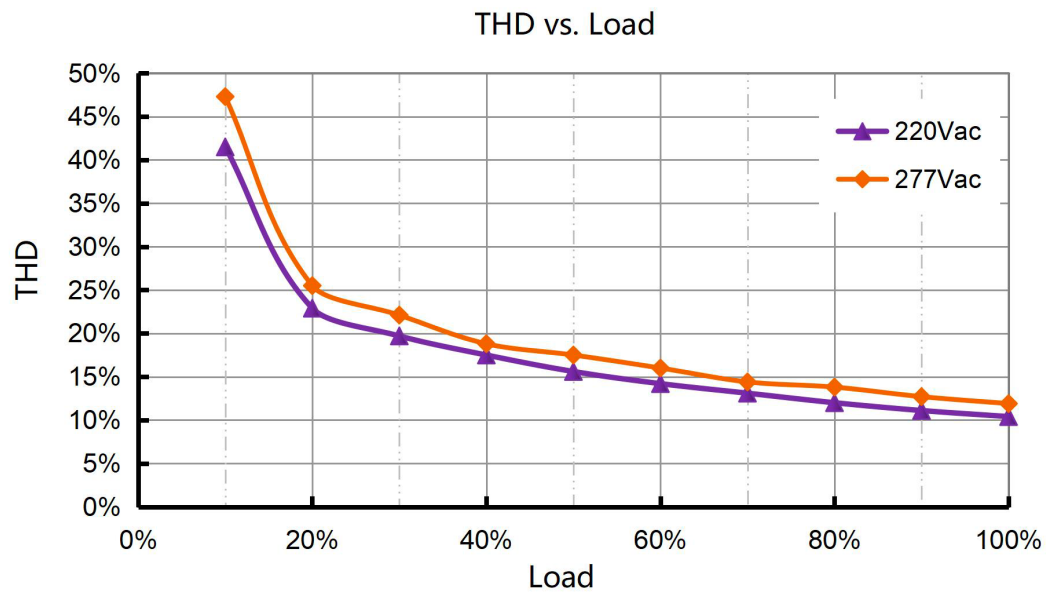
Lifetime vs. Case Temperature



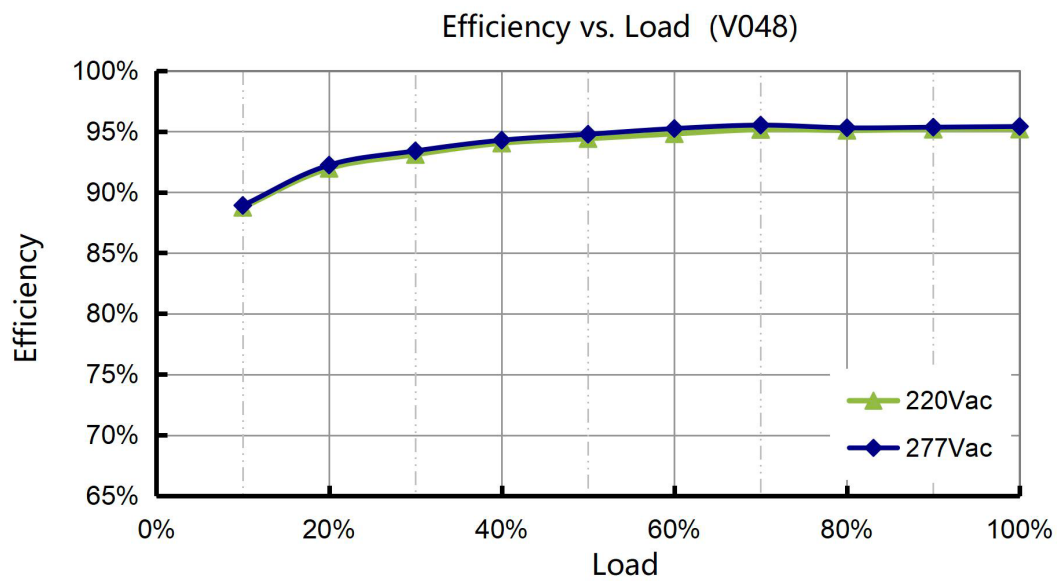
Power Factor vs. Load



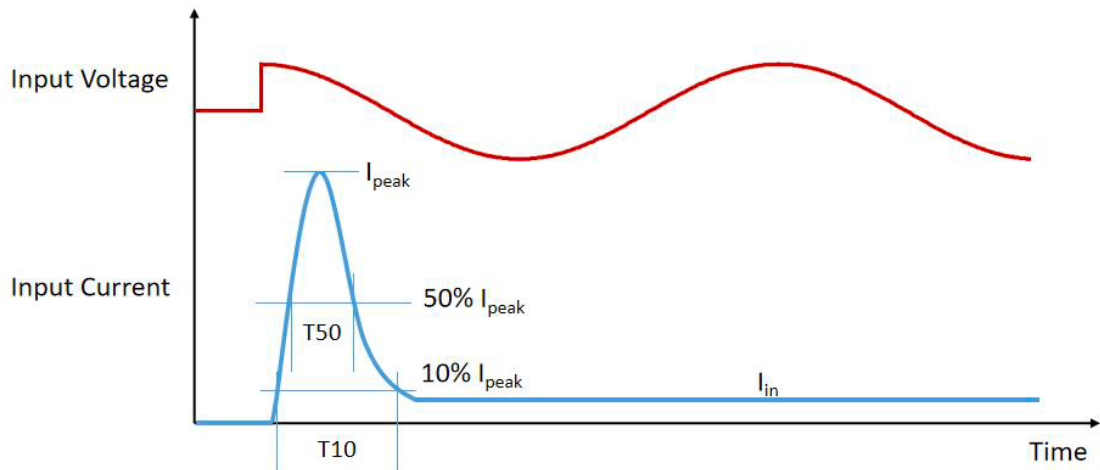
THD vs. Load



Efficiency vs. Load



Inrush Current



Input Voltage	I_{peak}	10% -10% T_{10} Duration	50% -50% T_{50} Duration
120Vac	3A	67mS	16ms
220Vac	5A	70mS	17ms
277Vac	8A	70mS	17ms

MCB Suggestion

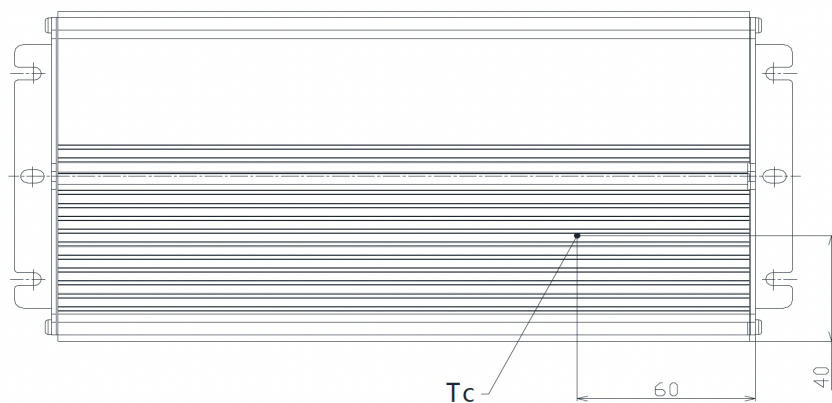
Type	B10	B16	B25	B32	C10	C16	C25	C32	D10	D16	D25	D32
Driver Quantity	1	2	3	4	1	2	4	5	2	3	5	6

TC Point

Described on each unit.

AC INPUT

DC OUTPUT



Dimensions

